BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

(Wholly owned by Government of Karnataka Undertaking)

No: BESCOM/CGM(Op)/DGM(Op-1)/AGM-3(Op-1)/2023-24/CYS-121

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Encl: 4 pages

O/o Chief General Manager (Ele),
Operations, Corporate Office,
K.R. Circle, Bangalore-560 001,
Date: -2 FEB 2024

OFFICIAL MEMORANDUM

Sub: Inspection of failed Distribution Transformers.

Ref: OM No. BESCOM/CGM(OP)/DGM(OP-1)/AGM-3/AE-4/BC-05/2022-23/CYS-32 dated 16.05.2022.

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The Officers are nominated for inspection of failed Distribution Transformers as per the list enclosed.

The inspecting officials are required to carry out the following activities with respect to the Distribution Transformers failed and to be repaired:

a. The Section officer (AE/JE) of Section shall inspect the failed Distribution Transformer. Reporting of transformer failure by the Section Officer has to be recorded in Annexure - 1 and has to be uploaded in DTLMS.

b. To ensure all the failed Transformers shall come to store without fail and transformer oil to be removed at stores only.

c. Each transformer should be opened out by removing top plate, yoke should be taken out & the HT/LT coils shall be removed at the respective stores/repair centers either by drilling through the length of coil or by cutting the coil ensuring that all the coils are completely damaged in presence of the inspecting officer and Assistant Executive Engineer, C, O & M Division office.

d. The joint inspection shall be carried out by the respective officers and the firm representative and to be recorded in Annexure-2.

e. The inspection of WGP Distribution Transformers shall be carried out by the inspecting officer, Assistant Executive Engineer, C, O & M Division office and the firm & the reason for failure of WGP DTRs has to be analyzed. Declaration of the transformer to be repaired in WGP or not, in Annexure-3 should be jointly signed and the report should be submitted to the SEEs of respective Circles and Corporate Office. The SEEs of respective circles has to review the repairs and returning of WGP transformers.

f. The Store Officer and the store keeper of respective Divisional store shall take inventory of the failed Transformers (AGP/WGP) received at stores.

g. The officials shall visit Division stores/repair center compulsorily as and when intimated by AEE(O) of respective Divisions to carry out inspection of failed DTRs.

h. The Executive Engineers of respective Divisions shall counter sign the inspection reports in Annexure -2 & 3.

The EEs respective Divisions should submit the report on monthly basis to corporate office through SEE, C, O & M Circle Office. The remaining conditions and procedures as mentioned in the DWA issued for repairs and reconditioning of failed DTRs remains unaltered and this procedure shall come into effect from the date of this OM. The OM issued vide in reference stands cancelled.

Chief General Manager (Ele) (I/c)
Operations, BESCOM

Copy to:

1. All the Chief Engineer (Ele), C, O & M Zones, BESCOM
2. The General Manager, M&C/Q, S & S, Corporate Office, BESCOM.
3. All the Superintending Engineers (Ele), C, O & M Circles, BESCOM
4. All the Executive Engineer (Ele), C, O & M Divisions, BESCOM.
5. All the Executive Engineer (Ele), MT Divisions, BESCOM-with instruction to circulate the OM to concerned inspecting officers of their respective MT Divisions.
6. PS to MD/D(T), BESCOM to place before MD/D(T), BESCOM for information.
7. MF

Annexure-1

BANGALORE ELECTRICITY SUPPLY COMPANY

Reporting of failure of Distribution Transformer by AE/JE of the section

	Name of the Section:	**Name of the Sub-Division:**
	Name of the AE/JE/SO:	

Details of Distribution Transformer

1	Make	
2	Capaclty in KVA	
3	Voltage ratio	
4	Location	
5	DTC code No.	
6	Serial Number	
7	Transformer Unique ID No.	
8	Year of Manufacture	
9	Quantitiy of Oil in litres	
10	Date of failure	
11	Insulation testing result	
12	Reason for failure	
13	PGRS docket No & date	

Section Officer
C,O&M .....section

Asst.Exec.Engineer(E),
C, O & M .....Sub-Division

Annexure-2

BANGALORE ELECTRICITY SUPPLY COMPANY

Joint Inspection report of failured Distribution Transformer

Name of the repairing firm:

Date of Joint Inspection:

A. Details of failed Distribution Transformer:

1	Make	
2	Sl No. of the Transformer	_____ (If NNP, the AEE (O) has to assign Sl No. and make of the Transformer)
3	Year of manufacture	
4	Capacity in KVA	
5	Voltage ratio	
6	Location	
7	DTC code No.	
8	Transformer unique ID No.	
9	Vector group	
10	Date of first installation	
11	Date of failure	
12	PGRS docket No & date	

B. Joint Inspection of failed Distribution Transformers

1	Insulation testing result	
2	Core	
a	Core material	
b	Condition of the core	
3	Tank Condition	
4	All coils are damaged (Yes/No)	
5	Conversion of CSP to conventional bolt and nut type	

1) Jointly inspected by us and the transformer without oil is handed over to the repairer.
2) The transformer has been opened out by removing top plate, yoke has been taken out & the HT/LT coils has been removed either by drilling through the length of coil or by cutting the coil **ensuring that all the coils are completely damaged.**

Firm representative

Name & Signature

Assistant Executive Engineer (Ele)

C, O & M _____ Division Office, BESCOM

Inspecting officer

Name & Signature

Executive Engineer (Ele)

C, O & M _____ Division Office, BESCOM

Annexure-3

BANGALORE ELECTRICITY SUPPLY COMPANY

Analysis of Distrtibution Transformer failed WGP

Name of the repair Centre:		
Date of Joint inspection:		
1	**Details of Distribution Transformer**	
a	Make	
b	Capacity in KVA	
c	Sl.No.	
d	Transformer unique ID No.	
e	DTC code No.	
2	**Details of previously Repaired works**	
a	Name of the repair centre	
b	Work Award details	
c	Details of repair works carriedout (duly mentioning the previously repaired phase/phases if any)	
d	Cost of repairs	
3	**Joint Inspection**	
a	Insulation testing result	
b	All coils are damaged (Yes/No)	
4	**Failure due to**	
a	Over Load (If the failure is due to overload, the details of authorized and unauthorized loads connected of the transformer along with LT distibution network single line diagram)	
b	Short circuit	
c	Bad maintenance (condition of the HT/LT protection, Grounding , Lightning arrester - provided/not provided)	
d	Loss of Oil (due to leakage)	
5	**Due to natural calamities**	

Firm representative

Name & Signature

Assistant Executive Engineer (Ele)

C, O & M _____ Division Office, BESCOM

Inspecting officer

Name & Signature

Executive Engineer (Ele)

C, O & M _____ Division Office, BESCOM